ELM
East Lake Metals

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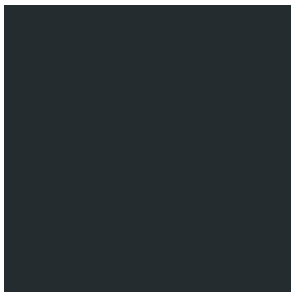
Phone: 219-655-5526 | Fax: 219-659-6956

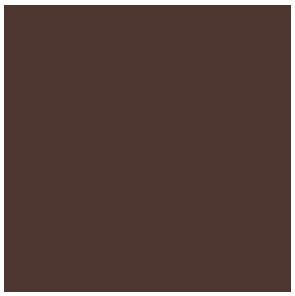
ARMORED COAST
BY ELM

Silver Metallic

Charcoal


Matte Black

Dark Bronze


Brown

Bone White

Put a steel roof on the Coast with a substrate warranty
Better than Galvalume®, mills exclude in coastal Environment
Better than Aluminum, mills don't offer substrate warranties
Just a better steel product!

ZAM® — Real 20 Year Coastal Warranty available
AkzoNobel TRINAR® TC — 35 Year Limited Warranty on the Coast

WHEELING-NIPPON STEEL

AkzoNobel

The Best Roof for the Coast! The ONLY Roof for the Coast!

ARMORED COAST
BY ELM

ZAM®

ZAM® is a registered trademark of Nippon Steel Corporation in Japan, the United States, and other countries and regions.

ZAM®: Zinc - 6% Aluminum - 3% Magnesium

Longer service life than other coated products. Superior cut edge rust protection. Excellent in coastal environment.

Minimum product thickness: 24ga
Minimum Coating thickness: .90 OZ/FT2
ASTM A1046/A1046M Type 1
Minimum yield strength: 50 KSI

ZAM® production started in Japan in 2000
ZAM® production started in USA in 2013
All ZAM® products will be "Made in USA".
Wheeling-Nippon Steel in Follansbee, WV.

Coastal warranty for 20 years and 6 months.

Website:
www.wheeling-nipponsteel.com/zam

Physical Properties	Requirement	TRINAR TC Performance
Specular Gloss 60°, ASTM D 523	Medium and low gloss ranges	Controlled to custom spec ±5 units
Dry film hardness ASTM D 3363	F minimum	H+
Cross-Hatch Adhesion ASTM D 3359	No removal between scribed lines	No loss of adhesion
Reverse Impact ASTM D 2794	No removal of film	No loss of adhesion
T-Bend ASTM D 4145	Minimum of 2T with no pick-off at the area of the bend	2T, No loss of adhesion

Test Data		
Humidity Resistance ASTM D 2247	1,000 hrs. few #8 blisters (maximum)	No blistering, 1,500 hrs (HDG or Galvalume)
Cleveland Condensing ASTM D 4585	1,500 hrs. no blistering, rusting or loss of adhesion	Meets or exceeds spec (HDG or Galvalume)
Water Immersion Resistance ASTM D 870	500 hrs. no loss of gloss, blistering, cracking or color change	Meets or exceeds spec
Salt Spray ASTM B 117	1,000 hrs. no blistering	Meets or exceeds spec (HDG or Galvalume)
Chemical Resistance ASTM D 1308	No significant color change after 24 hours exposure	No significant color change
Kesternich Test (Acid Rain) ASTM G 87	No significant color change after 10 cycles in a SO2 chamber	No significant color change
Exterior Weathering ASTM D 4214, ASTM 2244	10 years, 45° South Florida, max 5ΔE NBS color change, #8 chalk rating	Passes: 5 Hunter ΔE maximum color change #8 chalk rating @10 years
Abrasion Resistance ASTM D 968	The Abrasion Coefficient value of the organic coating shall be 40 minimum	Meets or exceeds spec

TRINAR TC coatings are providing protection for architectural metal on all types of buildings across the globe.